

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/573,718
Source: 1FwP
Date Processed by STIC: 4/6/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/573, 718

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 Skipped Sequences
(OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8 Skipped Sequences
(NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213>
Response Per 1.823 of Sequence Rules, the **only valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,718

DATE: 04/06/2006
TIME: 11:00:12

Input Set : A:\08917-116US1 Seq_List.txt
Output Set: N:\CRF4\04062006\J573718.raw

3 <110> APPLICANT: Toraya, Tetsuo
4 Tobimatsu, Takamasa
5 Yamanishi, Mamoru
6 Mori, Kouichi
7 Kajiura, Hideki
8 Yamada, Seiki
9 Yuzuki, Michio
10 Azuma, Muneaki
11 Hara, Tetsuya
12 Yasuda, Shinzo
14 <120> TITLE OF INVENTION: Method for Production of 3-hydroxypropionaldehyde
16 <130> FILE REFERENCE: 08917-116US1
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/573,718
C--> 18 <141> CURRENT FILING DATE: 2006-03-27
18 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/014213
19 <151> PRIOR FILING DATE: 2004-09-29
22 <150> PRIOR APPLICATION NUMBER: JP 2003-337663
23 <151> PRIOR FILING DATE: 2003-09-29
25 <160> NUMBER OF SEQ ID NOS: 4
27 <170> SOFTWARE: PatentIn version 3.1
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 7183
31 <212> TYPE: DNA
32 <213> ORGANISM: plasmid pBR322
34 <400> SEQUENCE: 1

pp1,4
Does Not Comply
Corrected Diskette Needed

invalid <213> response. See item 10 on
Error Summary Sheet

35 acgttatcga	ctgcacggtg	caccaatgct	tctggcgtca	ggcagccatc	ggaagctgtg	60
37 gtagggctgt	gcagggctgt	aatcactgca	taattcgtgt	cgctcaaggc	gcactcccg	120
39 tctggataat	gtttttgcg	ccgacatcat	aacggttctg	gcaaataattc	tgaaatgagc	180
41 tggataat	taatcatcg	ctcgtataat	gtgtgaaatt	gtgagcggat	aacaatttca	240
43 cacagggaaac	agtacatatg	agatcgaaaa	gatttgaagc	actggcgaaa	cgcctgtga	300
45 atcaggacgg	cttcgttaag	gagtggatcg	aagaaggctt	tatcgcgatg	gaaagcccga	360
47 acgacccaaa	accgtcgatt	aaaatcgta	acggcgcgg	gaccgagctg	gacggaaac	420
49 cggttaagcga	ttttgacctg	atcgaccact	ttatcgcccg	ctacggtatac	aacctgaacc	480
51 gcccgcaga	agtgtatggcg	atggattcgg	tcaagctggc	caacatgctg	tgcgatccga	540
53 acgttaaacg	cagcgaaatc	gtccccgtga	ccaccgcgt	gacgcccggc	aaaattgtcg	600
55 aagtggtttc	gcatatgaac	gtcgctcgaga	tgtatgatggc	gatgcagaaa	atgcgcgccc	660
57 gcccaccccc	gtccccacgc	gcccacgtca	ccaacgtcaa	agataaccgc	gtacagattg	720
59 cggccgacgc	cgccgaaagg	gcatggcg	gatttgcg	acaggaaacc	accgttgcgg	780
61 tagcgcgcta	tgcgcccgtt	aacgcccattc	cgctgctgg	gggctcg	gtagggcg	840
63 cgggcgtgct	gacgcagtgc	tcgctggaa	aagccaccga	gctgaagctc	ggcatgctgg	900
65 gccacacactg	ctacgcccga	accatctccg	tctacggcac	cgagccggc	tttaccgacg	960
67 gcgacgacac	gcccgtgtcg	aagggttcc	tcgcctcg	ctacgcctct	cgccggctga	1020
69 aaatgcgctt	tacctccggc	tcggctcg	aagtgcagat	ggctacg	gaaggcaat	1080

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,718

DATE: 04/06/2006
TIME: 11:00:12

Input Set : A:\08917-116US1 Seq_List.txt
Output Set: N:\CRF4\04062006\J573718.raw

71	ccatgcttta	tctggaagcg	cgctgcatct	acatcaccaa	agccgcgggc	gtacagggtc	1140
73	tgcaaaaacgg	ttccgtaagc	tgcatacgcg	tgccgtctgc	ggtgccttcc	ggcattcgcg	1200
75	cgggtctggc	ggaaaaacctg	atctgttctg	cgctggatct	ggagtgcgcc	tccagcaacg	1260
77	accagacctt	caccactcc	gatatgcgtc	gtaccgcgcg	cctgctgtatg	cagttcctgc	1320
79	cgggcaccga	ctttatctcc	tccggattt	ccgcgtgtcc	gaactacgac	aacatgttcg	1380
81	ccggctccaa	cgaagatgcc	gaagactttg	acgactacaa	cgtcatccag	cgcgacctga	1440
83	aggtggacgg	cggtttgcgt	ccggttcgcg	aagaggacgt	catgcgccatc	cgtaacaaag	1500
85	ccgcccgcgc	gctgcaggcc	gtgtttgcgg	gaatggggct	gccgcggatt	accgatgaag	1560
87	aagttgaagc	cgcgacctac	gcccacgggt	cgaaagatat	gccggagcgc	aacatcgctg	1620
89	aagacatcaa	gttcgcccag	gaatcatca	ataaaaaaccg	caacggctcg	gaagtggtga	1680
91	aagcgctggc	gcagggcgg	ttcaccgacg	tggccagga	catgctcaac	atccagaaag	1740
93	ctaagctgac	cggggactac	ctgcataacct	ccgcgattat	cgtcggcgac	ggcaggtgc	1800
95	tgtcagccgt	caacgcgtc	aacgactatg	ccggccggc	aacgggctat	cgcctgcagg	1860
97	gcgaacgcgt	ggaagagatt	aaaaacatcc	ctggcgtct	tgatccaaac	gagattgatt	1920
99	aaggggtag	aaatggaaat	taatgaaaaa	ttgctgcgc	agataattga	agacgtgtc	1980
101	agcgagatga	agggcagcga	taaaccgggc	tcgtttaatg	cgccggccgc	ctccgcggcg	2040
103	ccccaggcca	cggcccccgc	cggcgacggc	ttccctgacgg	aagtgggcga	agcgcgtcag	2100
105	ggaacccagc	aggacgaagt	gattatcgcc	gtcgcccccgg	cttcggcct	ggcgcagacc	2160
107	gtcaatatcg	tcggcatccc	gcataagagc	atttgcgcg	aagtcatgc	cggtatttga	2220
109	gaagaaggca	ttaaggcgcg	cgtgattcgc	tgctttaat	cctccgacgt	ggccttcgtc	2280
111	gccgttgaag	gtaatcgct	gagcggtctc	ggcatctcta	tcggcatcca	gtcgaaaggc	2340
113	accacggta	tccaccagca	ggggctgccc	ccgcctctcta	acctggagct	gttccgcag	2400
115	gcccgcgtgc	tgaccctgga	aacctatcgc	cagatcgca	aaaacgcgc	ccgcgtatgc	2460
117	aaacgcgaat	cggccgcagcc	ggtcccgcg	ctgaatgacc	agatggcg	ggcgaaggatc	2520
119	caggcgaaat	cggccatttt	gcacattaa	gagaccaagt	acgtgggtac	ggcaaaaac	2580
121	cgcgcaggaa	tgcgcgtggc	gtttgataa	aggataactc	catgaatacc	gacgcatttgc	2640
123	aatcgatgg	acgcgacgta	ttgagccgc	tgaacagcct	gcagggcgag	gcgcctgcgg	2700
125	cggctccggc	ggctggcg	gggtcccgta	gcccgcagggt	cagcgactac	ccgcgtggcga	2760
127	acaaggcacc	ggaatgggtg	aaaaccgc	ccaataaaaac	gctggacac	tttacgttgc	2820
129	aaaacgtgt	gagcaataaa	gtcaccgc	aggatatgc	tattaccccg	gaaaccctgc	2880
131	gcttacaggc	ttctatttgc	aaagacgcgg	gccgcgacc	gctggcgatg	aacttcgagc	2940
133	gcccgcgc	gtgcaccgc	gtaccggacg	atcgattt	tgaaatctac	aacgcctcc	3000
135	gcccctatcg	ctcgacgaaa	gaggagctc	tggcgtatgc	cgacgatctc	gaaaggcgct	3060
137	atcaggcgaa	gatttgcgc	gtttcgctc	gcgaagcg	cacgctgtac	gtcgagcgta	3120
139	aaaaactcaa	aggcgacgt	taacttcatt	ccggcccg	cgacagatcc	ccggaaattc	3180
141	atcggtact	actgacgatc	tgcctcgcc	gtttcggt	tgacggtaa	aacctctgac	3240
143	acatgcagct	cccgagacg	gtcacagctt	gtctgttgc	ggatgcggg	agcagacaag	3300
145	cccgtcaggg	cgcgtcagcg	ggtgttgcg	ggtgtcg	cgcagccatg	acccagtcac	3360
147	gtagcgatag	cggagggtat	aattcttgc	gacgaaagg	cctcgtata	cgcctat	3420
149	tataggtta	tgtcatgata	ataatggtt	cttagacgtc	aggtggact	tttcggggaa	3480
151	atgtgcgcgg	aaccctatt	tgtttat	tctaaata	ttcaaatatg	tatccgtca	3540
153	ttagacaata	accctgataa	atgcgttcaat	aatattgaaa	aggaagagt	atgagtattc	3600
155	acatttccg	tgtccccc	attccctt	ttgcggcatt	ttgccttcc	gttttgctc	3660
157	acccagaaac	gtgggtaaa	gtaaaagatg	ctgaagatca	gttgggtca	cgagtgggtt	3720
159	acatcgaaact	ggatctcaac	agcggtaa	tccttgagag	tttgc	gaagaacgtt	3780
161	ttccaatgt	gagcacttt	aaagtctgc	tatgtggcgc	ggttattatcc	cgtgttgc	3840
163	cgggcaga	gcaactcggt	cggccat	actattctca	aatgacttgc	tttgagact	3900
165	caccagtac	agaaaagcat	tttacggat	gcgtac	aagagaatta	tgcgtgtc	3960
167	ccataaccat	gagtataac	actgcggc	acttacttct	gacaacgtc	ggaggaccga	4020

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,718

DATE: 04/06/2006
TIME: 11:00:12

Input Set : A:\08917-116US1 Seq_List.txt
Output Set: N:\CRF4\04062006\J573718.raw

169	aggagctaac	cgctttttg	cacaacatgg	gggatcatgt	aactgcctt	gatcggttggg	4080
171	aaccggagct	gaatgaagcc	ataccaaacg	acgagcgtga	caccacgatg	cctgcagcaa	4140
173	tggcaacaac	gttgcgcaaa	ctattaactg	gcgaactact	tactctagct	tcccgcaac	4200
175	aattaataga	ctggatggag	gcggataaag	ttgcaggacc	acttctgcgc	tcggcccttc	4260
177	cggctggctg	gtttattgct	gataaaatctg	gagccggtga	gcgtgggtct	cgcgtatca	4320
179	ttgcagcact	ggggccagat	gttaagccct	cccgtatcgt	agttatctac	acgacgggga	4380
181	gtcaggcaac	tatggatgaa	cgaaaatagac	agatcgctga	gatagggtcc	tcactgatta	4440
183	agcattggta	actgtcagac	caagtttact	catataact	ttagattgat	ttaaaaacttc	4500
185	attttaatt	taaaaggatc	taggtgaaga	tccttttga	taatctcatg	acccaaaatcc	4560
187	cttaacgtga	gttttcgttc	cactgagcgt	cagacccgt	agaaaagatc	aaaggatctt	4620
189	cttgagatcc	ttttttctg	cgcgttaatct	gctgctgca	aacaaaaaaaaa	ccaccgctac	4680
191	cagcggtgg	ttgttgcgg	gatcaagagc	taccaactct	ttttccgaag	gtaactggct	4740
193	tcagcagagc	gcagatacca	aatactgtcc	ttctagtgt	gccgtagtt	ggccaccact	4800
195	tcaagaactc	tgttagcaccc	cctacatacc	tcgctctgct	aatcctgtt	ccagtggctg	4860
197	ctgccagtgg	cgataagtcg	tgtcttaccc	ggttggactc	aagacgtat	ttaccggata	4920
199	aggcgcagcg	gtcgggctga	acgggggggtt	cgtgcacaca	gcccgaccc	gagcgaacga	4980
201	cctacacccg	actgagatac	ctacagcgtg	agctatgaga	aagcgcac	cttcccgaag	5040
203	ggagaaaaggc	ggacaggtat	ccggtaagcg	gcagggtcgg	aacaggagag	cgcacgaggg	5100
205	agcttccagg	gggaaacgccc	ttgttatctt	atagtcctgt	cgggtttgc	cacccctgtac	5160
207	ttgagcgtcg	atttttgtga	tgctcgtcag	ggggcgagg	cctatggaaa	aacgcgcagca	5220
209	acgcggcctt	tttacggttc	ctggccttt	gctggcctt	tgctcacatg	ttctttcctg	5280
211	cgttatcccc	tgattctgtg	gataaccgt	ttaccgcctt	tgagtgagct	gataccgctc	5340
213	gcccgcagccg	aacgaccggag	cgcagcgt	cagtggcgt	ggaagcggaa	gagcgcctga	5400
215	tgcggatttt	tctccctacg	catctgtgcg	gtatttcaca	ccgcataaaat	tccgacacca	5460
217	tcaaatggtg	caaaaacctt	cgcgttatgg	catgatagcg	cccggaaagag	agtcaattca	5520
219	gggtgggtaa	tgtgaaacca	gtaacgttat	acgtatgcgc	agagtatgcc	gggtgtcttt	5580
221	atcagaccgt	ttcccgcgtg	gtgaaccagg	ccagccacgt	ttctgcgaaa	acgcgggaaa	5640
223	aagtggaaagc	ggcgatggcg	gagctgaatt	acattccaa	ccgcgtgc	caacaactgg	5700
225	cgggcaaaca	gtcggtgctg	attggcgttg	ccacccctcg	tctggccctg	cacgcgcctg	5760
227	cggaaattgt	cgcggcgatt	aatatctcg	ccgatcaact	gggtgcac	gtgggtgt	5820
229	cgtatggtaga	acgaagcggc	gtcgaagcct	gtaaagcggc	ggtgcacaaat	cttctcgcc	5880
231	aacgcgtca	tgggctgatc	attaactatc	cgctggatga	ccaggatgcc	attgtgtgg	5940
233	aagctgcctg	cactaatgtt	ccggcgat	ttctgtatgt	ctctgaccag	acacccatca	6000
235	acagttattat	tttctccat	gaagacggta	cgcgactgg	cgtggagcat	ctgtcgcat	6060
237	tgggtcacca	gcaaatcg	ctgttagcgg	gcccattaag	ttctgtctcg	gcgcgtctgc	6120
239	gtctggctgg	ctggcataaa	tatctcactc	gcaatcaa	tcagccata	gcgaaacggg	6180
241	aaggcgactg	gagtgc	tccggttt	aacaaaccat	gcaaatgc	aatagggca	6240
243	tcgttccac	tgcgtatgc	gttgcac	atcagatggc	gctggcgca	atgcgcgcca	6300
245	ttaccgagtc	cgggctgc	gttggcgg	atatctcg	agtgggatac	gacgataccg	6360
247	aagacagctc	atgttatatc	ccgcccgtt	ccacccatca	acaggat	cgcctgtgg	6420
249	ggcaaaccag	cgtggaccgc	ttgctgcaac	tctctcagg	ccaggcgt	aaggcata	6480
251	agctgttgc	cgtctca	gtgaaaagaa	aaaccacc	ggcgccca	acgaaaccg	6540
253	cctctcccg	cgcgtggcc	gattcattaa	tgcagctgc	acgacagtt	tcccgactgg	6600
255	aaagcggca	gtgagcgt	cgcaattaa	gtgagttac	tcactcatt	ggcacc	6660
257	gttttacact	ttatgttcc	ggctcgat	ttgtgtggaa	ttgtgac	ggataacaattt	6720
259	cacacaggaa	acagctatga	ccatgattac	ggattca	gccgtcg	tacaacgtcg	6780
261	tgactggaa	aaccctggcg	ttacccaa	taatgcctt	gcagcacatc	ccccttcgc	6840
263	cagctggcg	aatagcgaag	aggccgcac	cgatgcct	tcccaac	tgccgagcc	6900
265	gaatggcgaa	tggcgctt	cctggtttcc	ggcacc	ggcgtgc	ccggaaagctgg	6960

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,718

DATE: 04/06/2006
TIME: 11:00:12

Input Set : A:\08917-116US1 Seq_List.txt
Output Set: N:\CRF4\04062006\J573718.raw

267 ggagtgcgtt cttccgtgagg ccgataactgt cgtcgcccc tcaaaactggc agatgcacgg 7020
 269 ttacgtgcg cccatctaca ccaacgtaac ctatcccatt acggtaatc cgccgtttgt 7080
 271 tccccacggag aatccgacgg gttgttactc gtcacattt aatgtttagt aaagctggct 7140
 273 acaggaaggc cagacgcgaa ttattttga tggcggttggaa att 7183
 276 <210> SEQ ID NO: 2
 277 <211> LENGTH: 6607
 278 <212> TYPE: DNA
 279 <213> ORGANISM: plasmid p15A same error in sequence 3-4, no
 281 <400> SEQUENCE: 2
 282 gaatttaattc tggcaatcc tctgaccgc cagaaaacga cctttctgtg gtgaaaacgg 60
 284 atgctgcaat tcagagcgcc agcaagtggg ggacagcaga agacctgacc gcccagagt 120
 286 ggtatgttga catggtaag actatcgac catcagccag aaaaccgaat ttgctgggt 180
 288 gggctaacga tatccgcctg atgcgtgaac gtgacggacg taaccacccg gacatgtgtg 240
 290 tgcgttccg ctggccatgc caggacaact tctgtccgg taacgtgtg agccggcca 300
 292 agcttactcc ccatccccct gttgacaatt aatcatcgcc tcgtataatg tggaaattg 360
 294 tgagcggata acaatttcac acaggaaaca ggatccctagg aggtttaaac atatgcgata 420
 296 tatagctggc attgatatacg gcaactcatc gacgaaatgc gcccctggcga ccctggatga 480
 298 ggctggcgcc ctgacgatca cccacagcgc gctggggaa accacccgaa tcaaaggcac 540
 300 gttgcgtaac gtgttggga ttcaggaggc gctgcctc gtcgcccagag gcccgggat 600
 302 cccgtcagc gatatttcgc tcattccat caacaagcg acgcccgtga ttggcgatgt 660
 304 ggcgatggaa accattaccg aaaccatcat caccgaatcg accatgatcg gccataaccc 720
 306 gaaaacgccc ggcggcgccg gccttggcac aggcatcacc attacgcgc aggagctgt 780
 308 aacccgccc gcgacgcgc cctatatcct ggtgggtcg tcggcggtcg atttggcg 840
 310 tatcgccagc gtgattaacg cttccctgcg cgccgggtat cagattaccg gctgcatttt 900
 312 acagcgcgac gatggcgtgc tggcagcaa cggctggaa aaaccgctgc cgatcggtga 960
 314 cgaagtgtcg tacatcgacc gcattccgtc gggatgtcg gcccgttgcg aggtcgccgt 1020
 316 tccgggaaag gtcatcgaaa ccctctctaa cccttacggc atcgccaccg tcttaacct 1080
 318 cagcccccagc gagacaaga acatcgccc gatggcccg gctgttgcg gcaaccgttc 1140
 320 cggcgtggcgtg gtcaaaacgc catccggca cgtcaaagcg cgcgcgatac ccggcgtaa 1200
 322 tctttagtgcg ctggcccagg gccgttagcgt ggcgtggat gtggccggc gggccgaagc 1260
 324 catcatgaaa gcggtcgacg gtcgcggcag gtcgataac gtcaccggcg aatccggcac 1320
 326 caaatatcgcc ggcatgtgg aacacgtgcg ccagaccatg gccgagctga ccaacaagcc 1380
 328 gagcagcgaa atatttattc aggacgtgtc gcctgttgc acctcggtac cggtagcgt 1440
 330 taccggcggt ctggccgggg agttctcgct ggagcaggcc gtgggcattcg cctcgatgg 1500
 332 gaaatcggtt cgcctcgaga tggcaatgtat cggccggcga atcgagcaga agctcaat 1560
 334 cgcacgtgcacg atcgccggcg cagaggccg agccgcattc ctggggcgcc tgaccacgccc 1620
 336 gggcaccacc cgaccgtgg cgatcctcgat cctccggcg ggcctccaccg atgcctccat 1680
 338 catcaacccc aaaggcgaca tcatcgccac ccatttcgcg ggcgcaggcg acatgggtac 1740
 340 gatgattatt gcccggcagc tggggctggaa agaccgtat ctggcgaaag agatcaagaa 1800
 342 gtacccgtcg gctaagggtgg aaagcctgtt ccatttacgc cacgaggacg gacgcgtgca 1860
 344 gttttctcc acgcccgtgc cgcccgccgt gttcgccccgc gtctgtgtt gtaaagcgaa 1920
 346 cgaactgggtt cgcgtcccg gcgatttagc gtcgaaaaaa gtgcgcgcca ttcggcccg 1980
 348 cggccaaagag cgggtctttg tcaccaacgc cctgcgcgcg ctgcgtcagg tcagccccac 2040
 350 cggcaacatt cgcgttattc ctttcgtgtt gtcgtcgcc ggttcgtcg tggatttcga 2100
 352 agtcccccgac ctggtcaccg atgcgtgtc gcaactaccgc ctgggttgcg gacggggaaa 2160
 354 tattcgccgc agcgaggggcc cccgaaacgc ggtggccacc ggcctgattc tccctggca 2220
 356 taaggagttt ggcgttgcac ggtatcaca ggcggccgc catcgatc gccgttgc 2280
 358 acggctgcga cggccgttgcg cgcgttgc tgcgtggat cgaagaggaa ggtatccctt 2340
 360 tccggctcca gcatcaccgc gccggagagg tcgtggacag cgcctggcag gcgccgcga 2400

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/573,718

DATE: 04/06/2006
TIME: 11:00:12

Input Set : A:\08917-116US1 Seq_List.txt
Output Set: N:\CRF4\04062006\J573718.raw

362	gctcgccgt	gctggggc	atcgccgtcg	accggccat	at	gctggtcgtg	cactacaaga	2460	
364	atttacccgc	atcgccgtcg	cttttacgc	tgatgc	atca	tcaggacagt	caggccc	2520	
366	gcaacaccgg	taataacgcg	gcacggctgg	tcaaggggat	cccttc	ccgg	gatctgaata	2580	
368	gcaagcaac	aggagaacag	caggatgaat	aagatctcg	gtagccgc	taatgagcg	2640		
370	gctttttt	atgagaatta	caacttat	cgtatgggc	tgacttcagg	tgctacattt	2700		
372	gaagagataa	attgcactga	aatctagaaa	tattttatct	gattaataag	atgatcttct	2760		
374	tgagatcg	ttggctcg	cgtaatctct	tgctctgaaa	acgaaaaaaac	cgccttg	cag	2820	
376	ggcggtttt	cgaagg	ttct	ctgagctacc	aactcttga	accgaggtaa	ctggcttgg	2880	
378	ggagcgc	cagg	tttca	gtttagc	tttta	aaccggcg	ca	tgacttcaag	2940
380	actaactcct	ctaaatcaat	taccagtggc	tgctcc	agg	gtgtctt	tc	catgtctt	3000
382	cgggttggac	tcaagacgat	agttaccg	taaggc	cg	ggact	gaacgggggg	3060	
384	ttcgtgcata	cagtcc	cag	tggagc	gac	tgcc	tacc	gaactgagtg	3120
386	aatgagacaa	acgcg	ccat	aacagc	ggaa	tgacac	ccgt	aaaccgaaag	3180
388	gagagcgcac	gagg	gagccg	ccagg	gggaa	acgc	cttgc	tatagt	3240
390	ttcgc	ccacca	ctgatt	gag	cgtc	agat	gtt	gtcagg	3300
392	ggaaaaacgg	cttgc	ccgc	gc	ccctct	ca	tcc	atgtat	3360
394	caggaaatct	ccgccc	cg	tgt	ccat	ttcc	gctcg	cgac	3420
396	tagc	gagtca	gtg	agc	gagg	aagc	ggaa	ata	3480
398	cgtgc	cagcc	ttttt	ctcc	tgcc	acat	ga	tgacacc	3540
400	acat	agtaa	g	c	ctcc	gct	ac	tc	3600
402	gcacc	acccc	gtc	agtag	ct	gat	gt	cc	3660
404	cac	ctaaaa	acaccat	cat	acactaa	at	act	gg	3720
406	tgc	ccgaat	aaata	acc	ctgt	gaa	gat	cc	3780
408	cct	gtt	gata	ccgg	gg	cc	ttt	gt	3840
410	gtaa	gagg	tt	ccaa	cata	at	aa	at	3900
412	ttat	cgagat	ttc	cagg	ag	aa	at	tt	3960
414	acc	gtt	gata	tat	ccaa	tg	at	tt	4020
416	caat	gt	ta	acc	ac	ttt	ttt	aa	4080
418	aaa	ataa	gc	aa	gtt	ttt	cc	gat	4140
420	cat	ccg	gaat	ttc	gtat	gg	at	tt	4200
422	cct	gtt	taca	ccg	ttt	cc	tc	cat	4260
424	cac	gac	gatt	tcc	gg	cc	tct	gt	4320
426	aa	cct	ggc	cct	ttt	cc	tct	ttt	4380
428	tgg	gt	ttt	ttt	ttt	ttt	ttt	ttt	4440
430	gtt	ttt	ccca	ttt	ttt	ttt	ttt	ttt	4500
432	cagg	ttt	ccat	ttt	ttt	ttt	ttt	ttt	4560
434	cag	tact	ggc	ttt	ttt	ttt	ttt	ttt	4620
436	taa	acgc	ctg	ttt	ttt	ttt	ttt	ttt	4680
438	aag	caa	attt	ccg	ttt	ttt	ttt	ttt	4740
440	tt	gct	gg	ttt	ttt	ttt	ttt	ttt	4800
442	ctg	agg	cc	ttt	ttt	ttt	ttt	ttt	4860
444	ttc	tgc	c	ttt	ttt	ttt	ttt	ttt	4920
446	at	gat	ac	ttt	ttt	ttt	ttt	ttt	4980
448	cgt	at	gg	ttt	ttt	ttt	ttt	ttt	5040
450	cag	cc	ac	ttt	ttt	ttt	ttt	ttt	5100
452	catt	ccc	aa	act	ggc	ttt	ttt	ttt	5160
454	cac	c	cc	c	ttt	ttt	ttt	ttt	5220
456	cgt	at	ca	act	ggc	ttt	ttt	ttt	5280
458	taa	agc	ggc	ggc	ttt	ttt	ttt	ttt	5340

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/573,718

DATE: 04/06/2006

TIME: 11:00:13

Input Set : A:\08917-116US1_Seq_List.txt

Output Set: N:\CRF4\04062006\J573718.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application No

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date